FIG. 1A

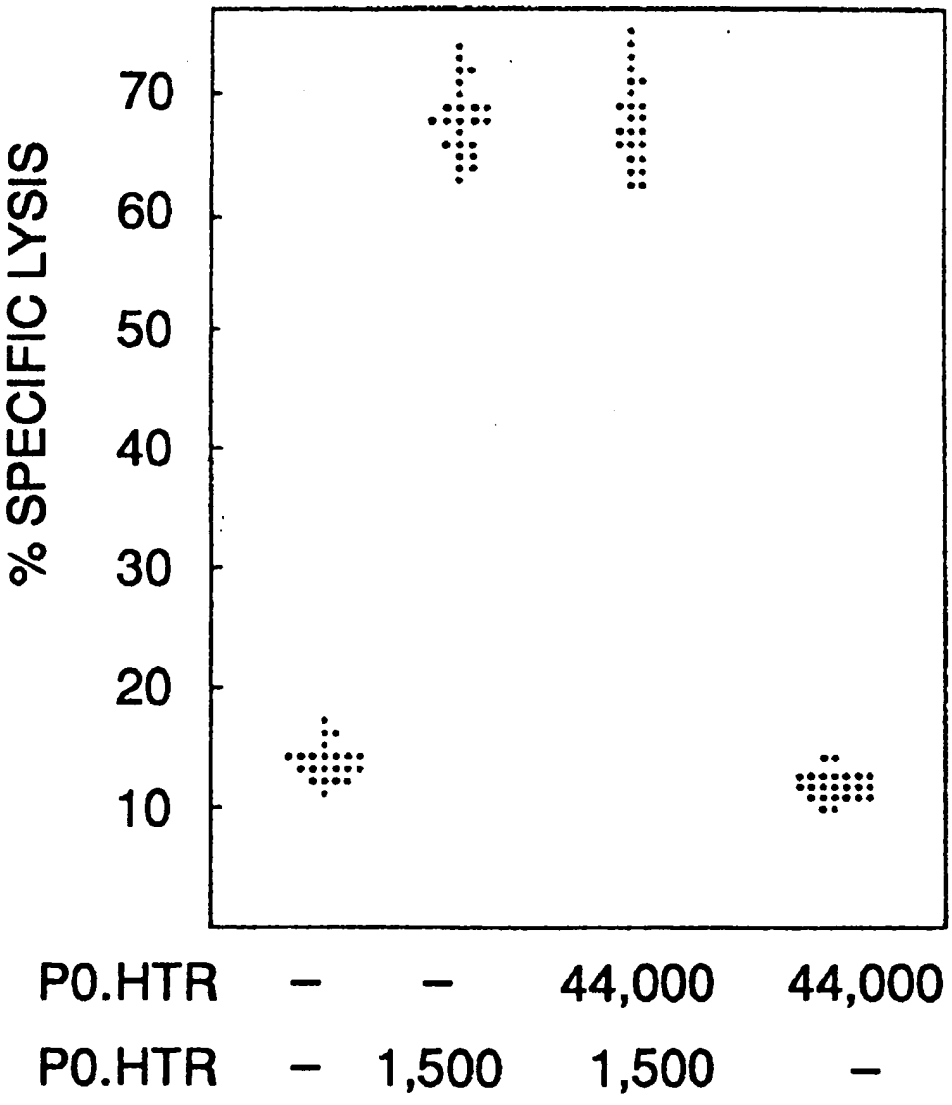

% SPECIFIC LYSIS
70
60
50
40
30
20
10
P0.HTR – – 44,000 44,000
P0.HTR – 1,500 1,500 –

FIG. 1B

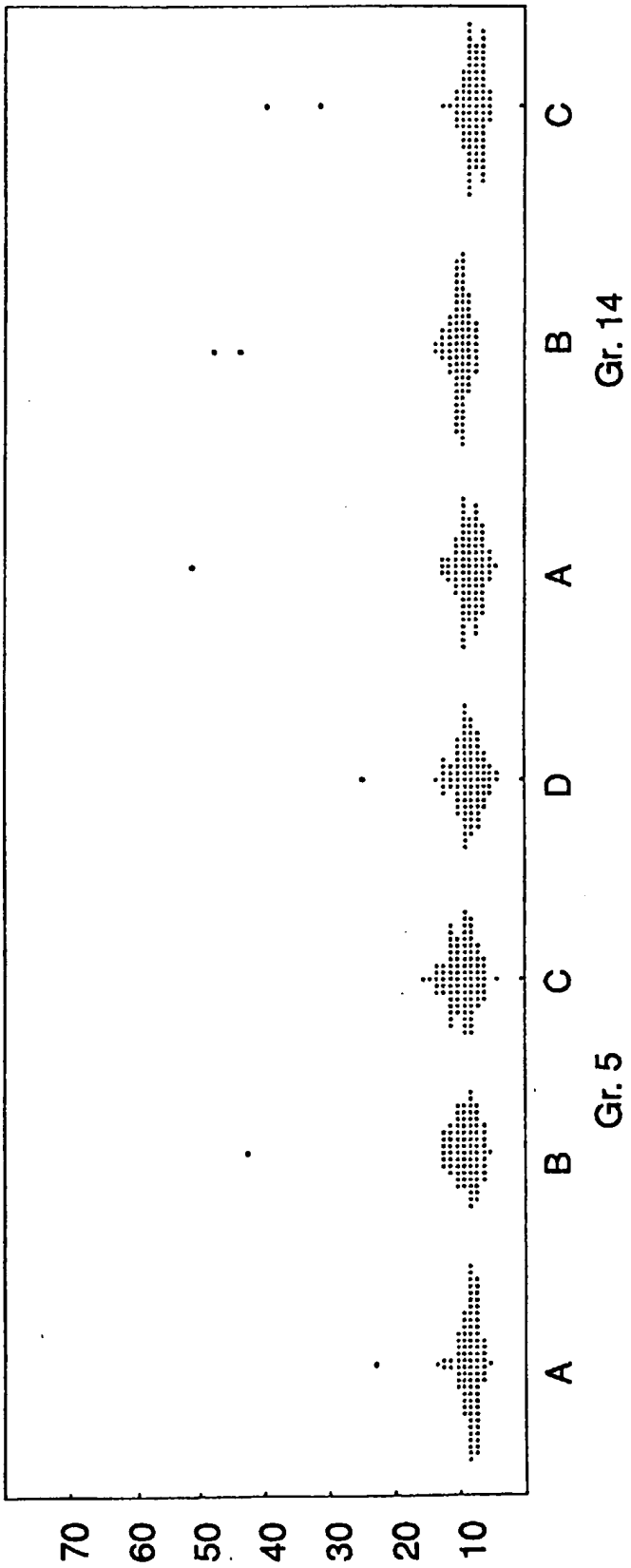


FIG. 2

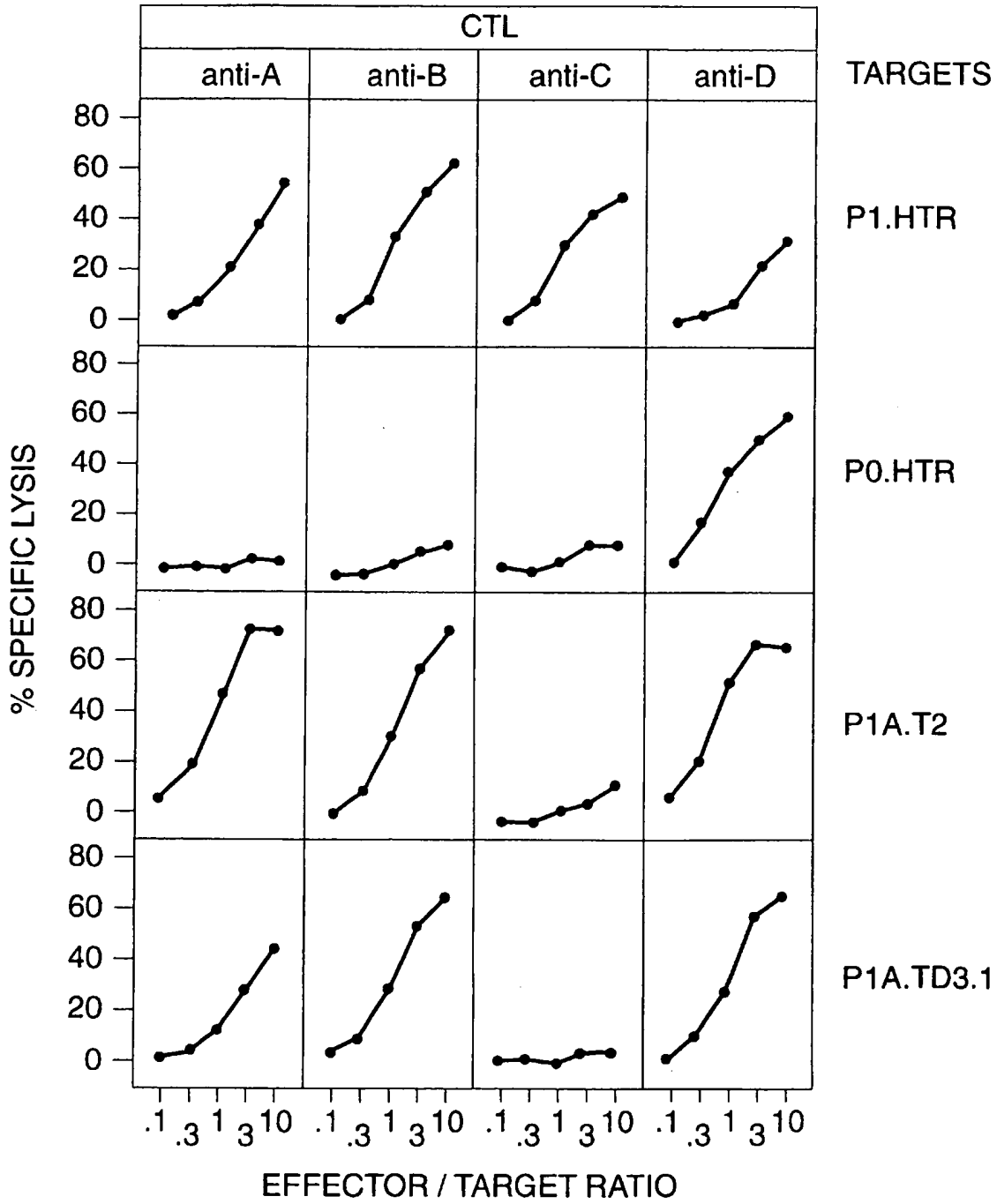

CTL
anti-A
anti-B
anti-C
anti-D
TARGETS
P1.HTR
P0.HTR
P1A.T2
P1A.TD3.1
% SPECIFIC LYSIS
0
20
40
60
80
.1
.3
1
3
10
EFFECTOR / TARGET RATIO

FIG. 3

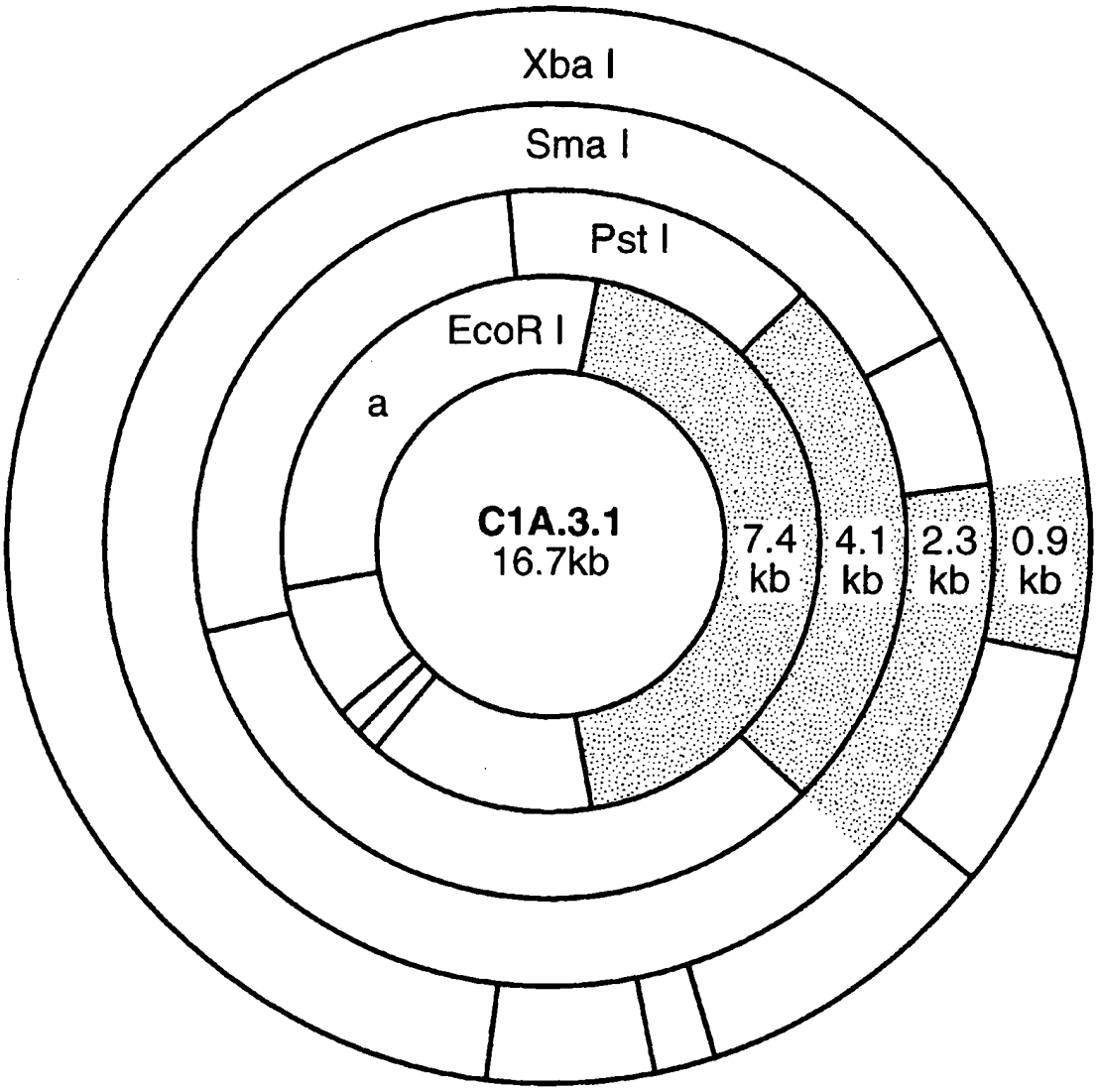
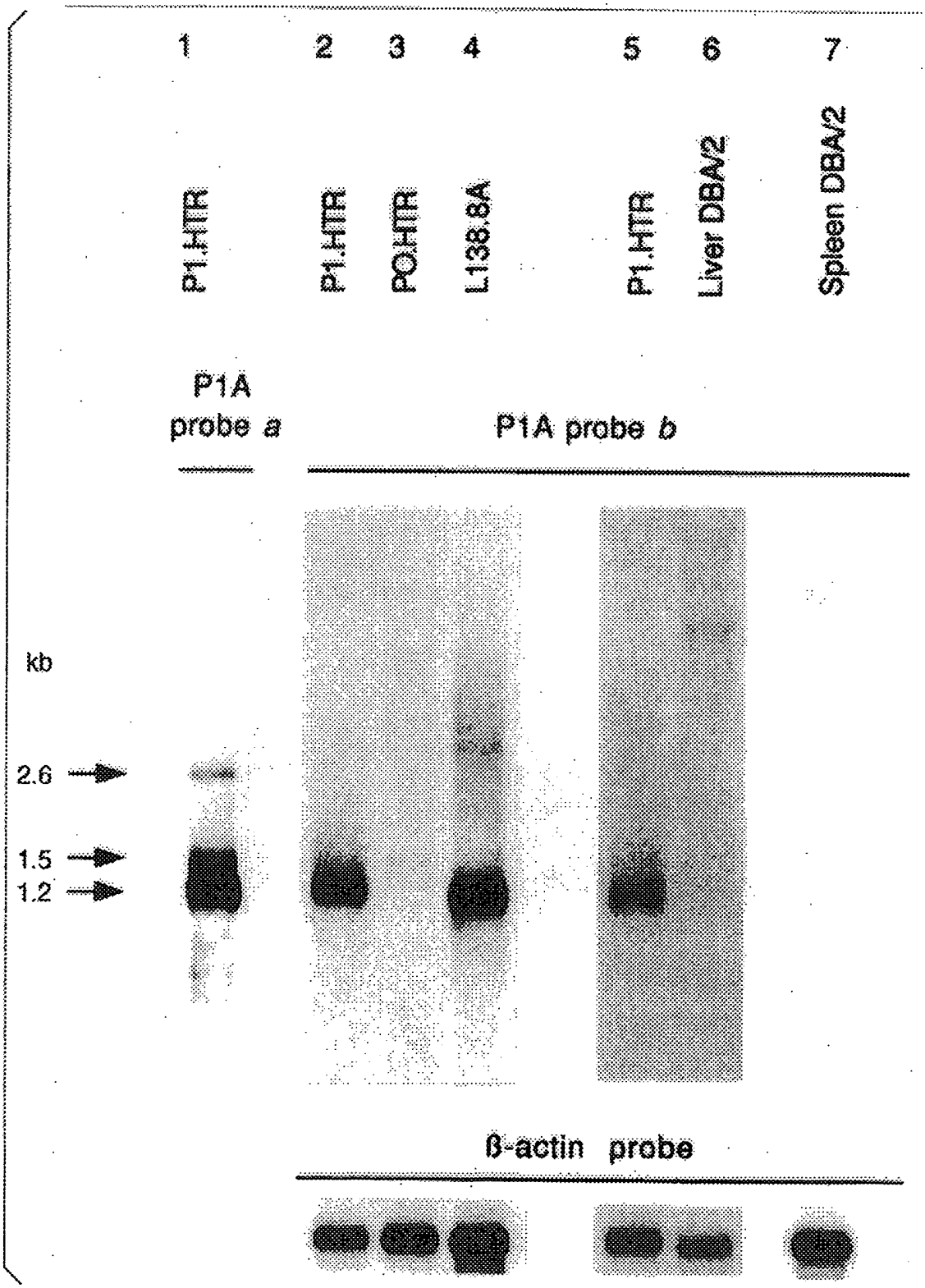


FIG. 4



REPLACEMENT SHEET

FIG. 5

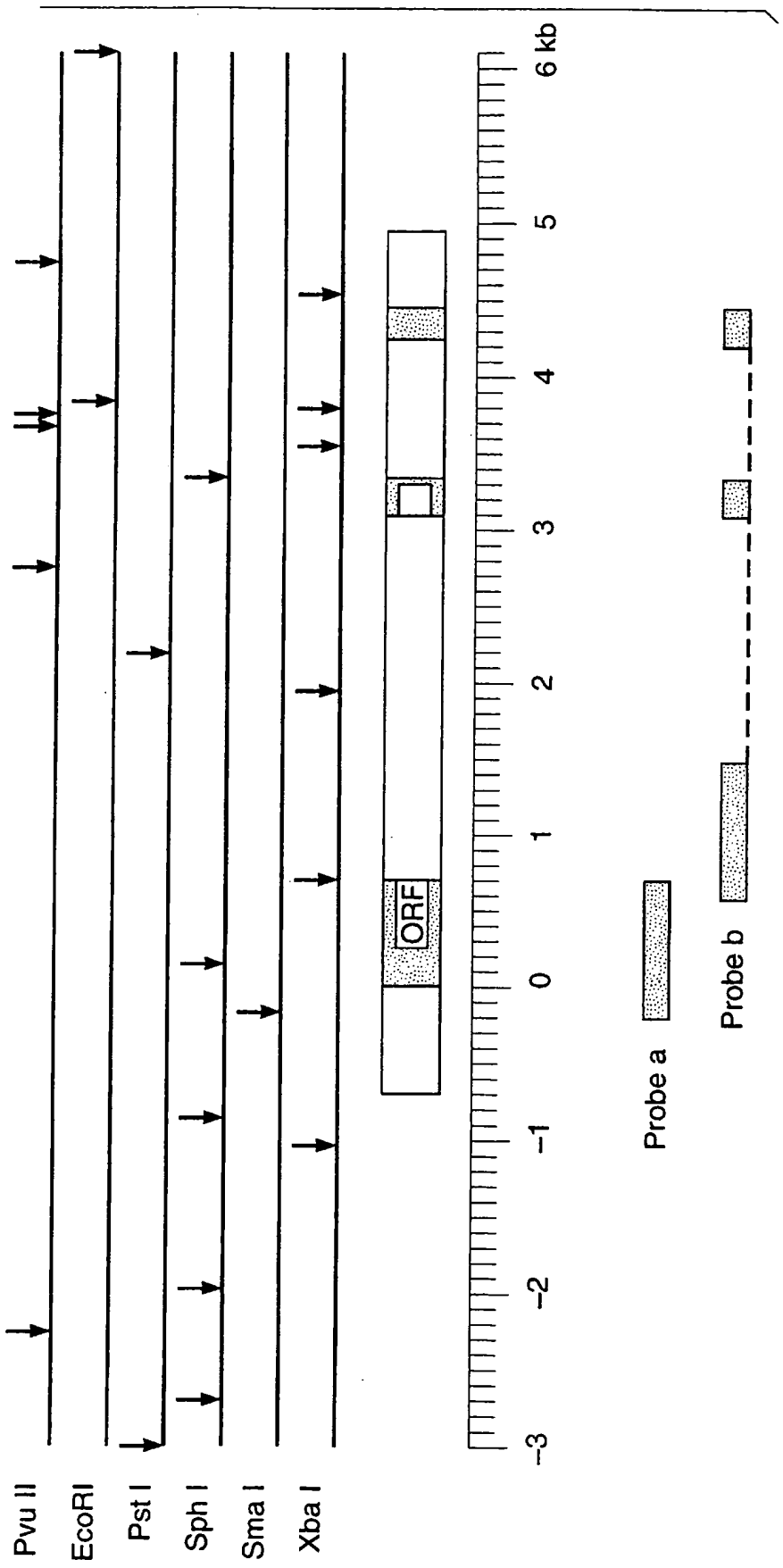

Pvu II
EcoRI
Pst I
Sph I
Sma I
Xba I
ORF
-3
-2
-1
0
1
2
3
4
5
6 kb
Probe a
Probe b

FIG. 6

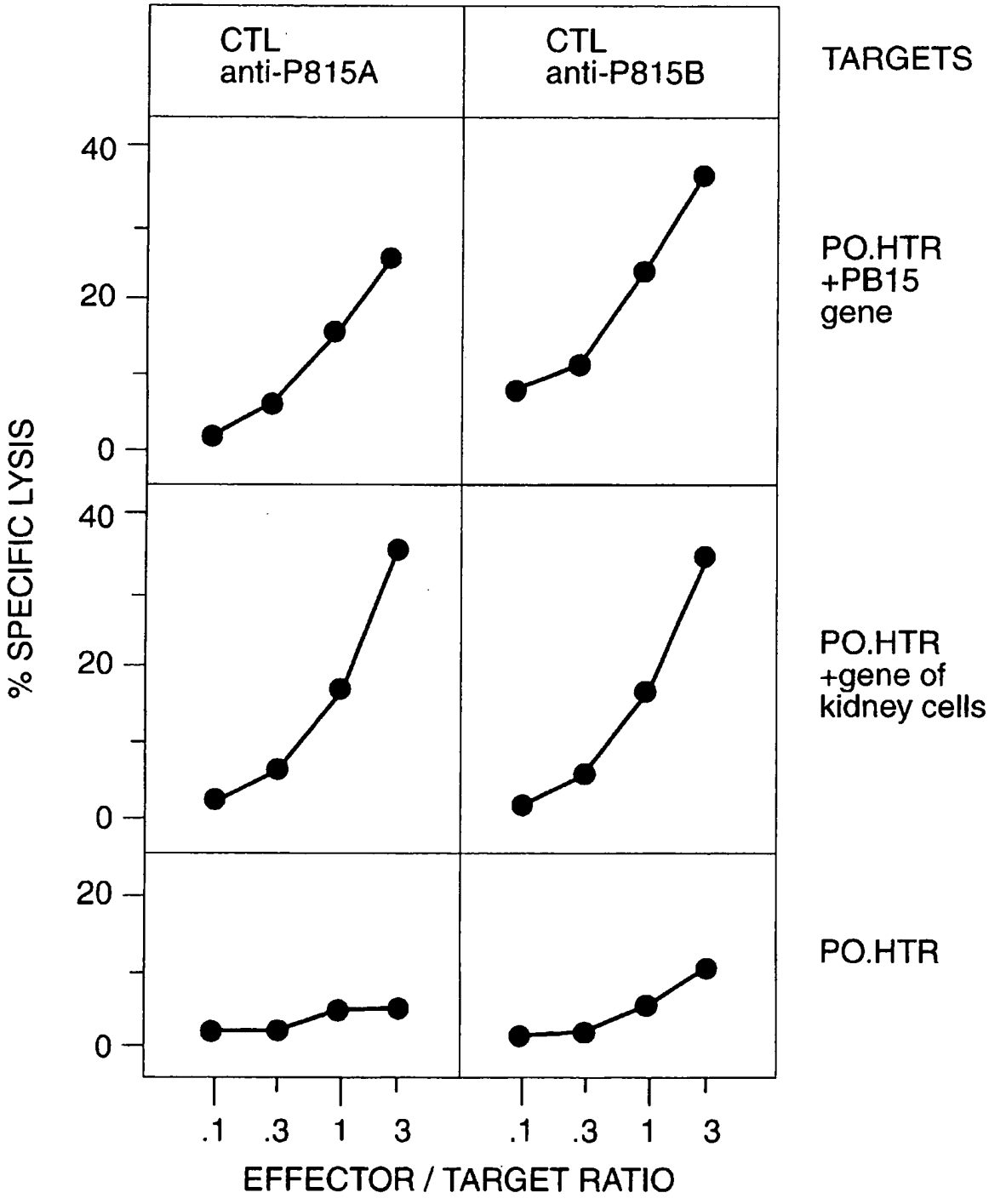

CTL
anti-P815A
CTL
anti-P815B
TARGETS
40
20
0
PO.HTR
+PB15
gene
40
20
0
PO.HTR
+gene of
kidney cells
20
0
PO.HTR
% SPECIFIC LYSIS
.1
.3
1
3
.1
.3
1
3
EFFECTOR / TARGET RATIO

FIG. 7

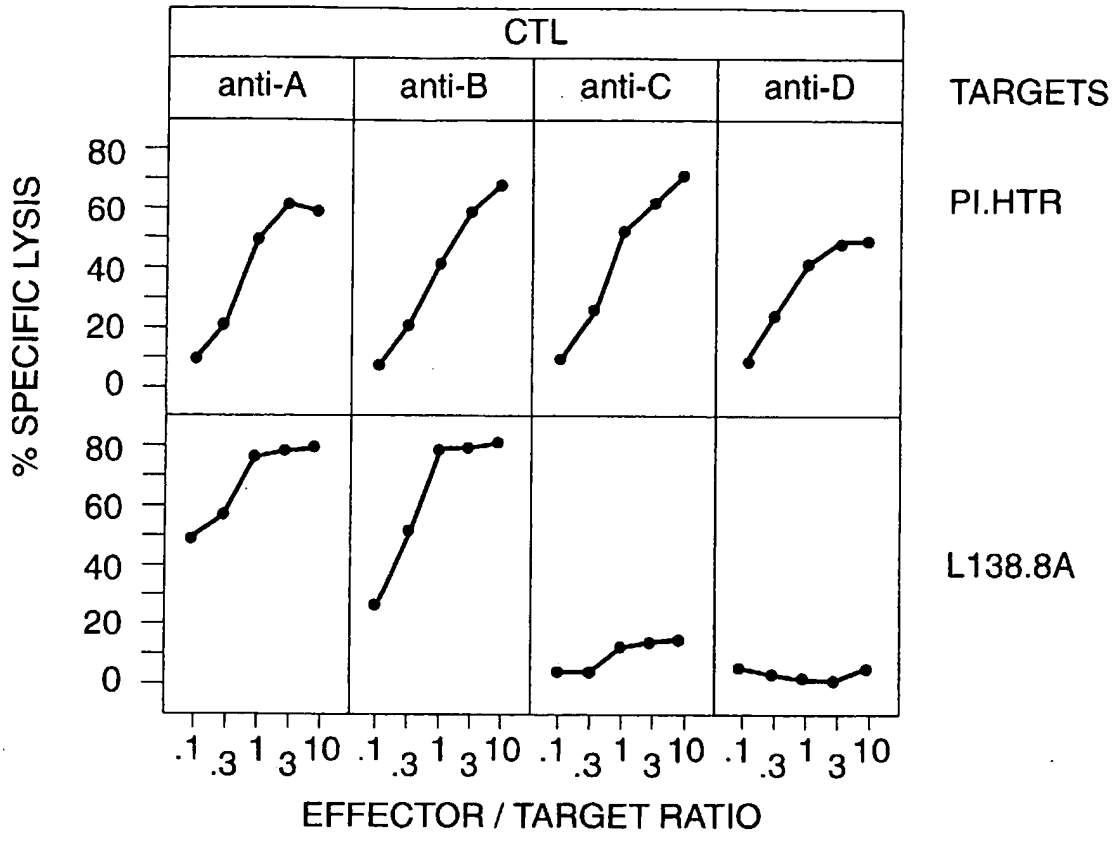

CTL
anti-A
anti-B
anti-C
anti-D
TARGETS
PI.HTR
L138.8A
% SPECIFIC LYSIS
80
60
40
20
0
.1 .3 1 3 10
EFFECTOR / TARGET RATIO

FIG. 8

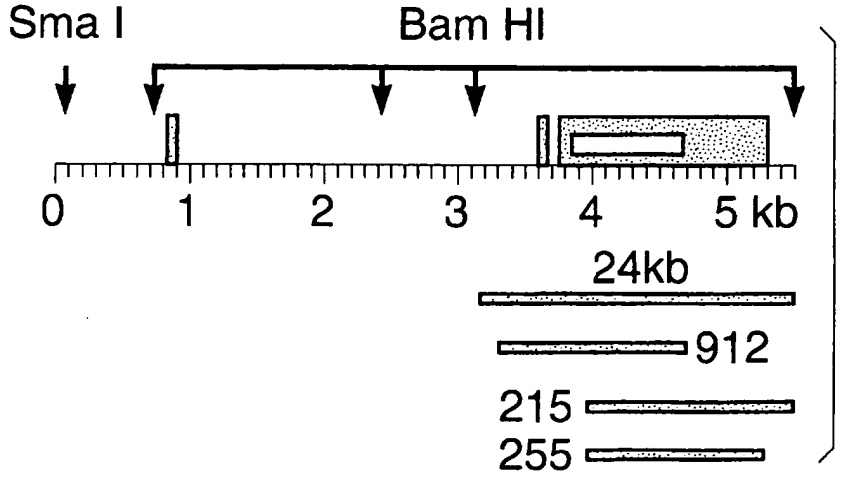

Sma I
Bam HI
0
1
2
3
4
5 kb
24kb
912
215
255

FIG. 9

REPLACEMENT SHEET

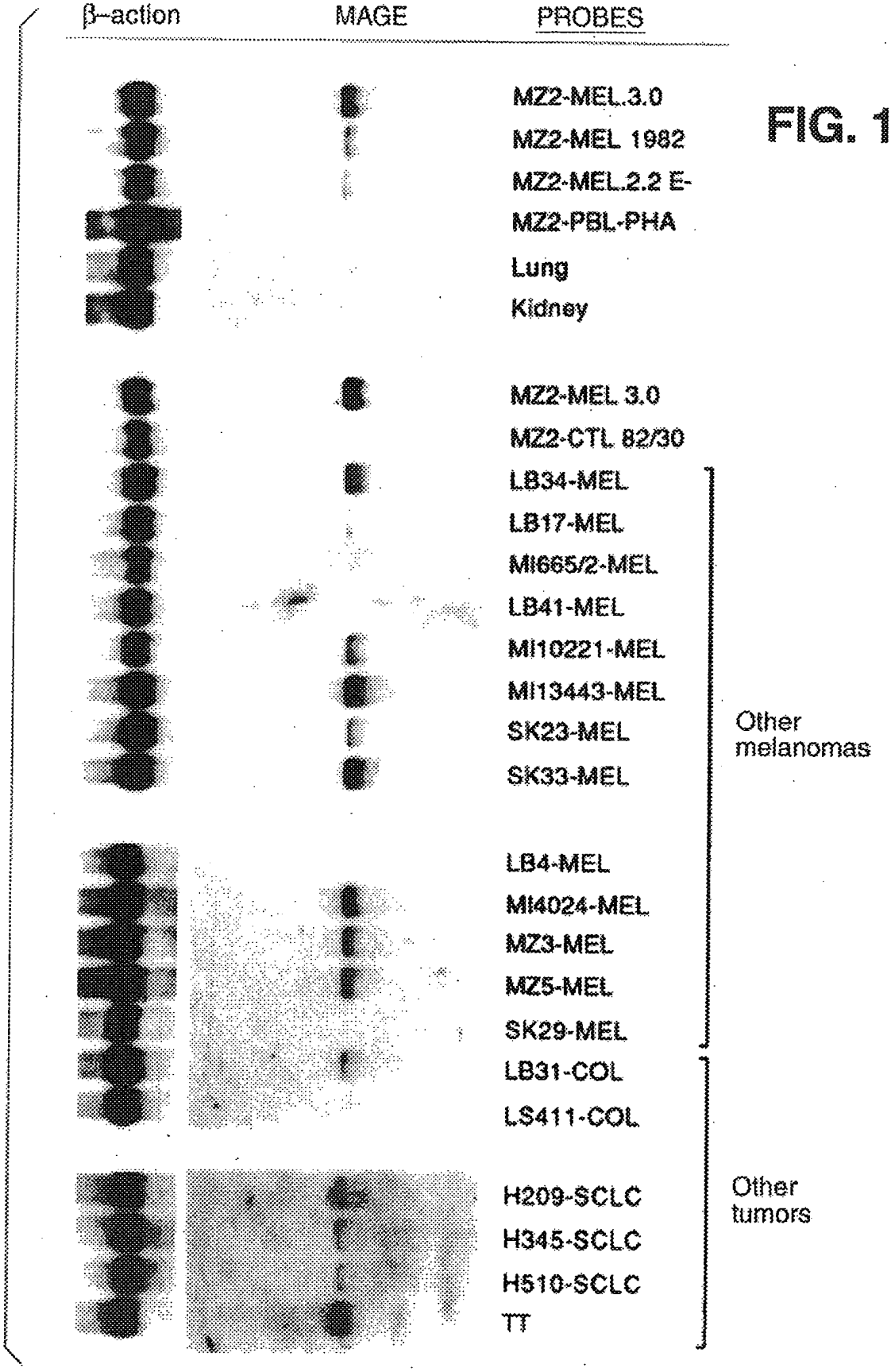

β-action
MAGE
PROBES
MZ2-MEL.3.0
MZ2-MEL 1982
MZ2-MEL.2.2 E-
MZ2-PBL-PHA
Lung
Kidney
MZ2-MEL 3.0
MZ2-CTL 82/30
LB34-MEL
LB17-MEL
MI665/2-MEL
LB41-MEL
MI10221-MEL
MI13443-MEL
SK23-MEL
SK33-MEL
Other melanomas
LB4-MEL
MI4024-MEL
MZ3-MEL
MZ5-MEL
SK29-MEL
LB31-COL
LS411-COL
H209-SCLC
H345-SCLC
H510-SCLC
TT
Other tumors

FIG. 10

FIG. 11A

		EXPRSSION OF MAGE GENE FAMILY				RECOGNITION BY ANI-E CTL		
		Northern blot probed with cross-reactive MAGE-1 probe*	cDNA-PCR product probed with oligonucleotide specific for:			tested by:		Expression of antigen MZ2-E after transfection**
			MAGE-1	MAGE-2	MAGE-3†	TNF release‡	Lysis§	
Cells of patient MZ2	melanoma cell line MZ2-MEL.3.0	+	++++	++++	++++	+	+	
	tumor sample MZ2 (1982)	+	+++	+++	+++			
	antigen-loss variant MZ2-MEL.2.2	+	−	+++	+++	−	−	
	CTL clone MZ2-CTL.82/30	−	−	−	−			
	PHA-activated blood lymphocytes	−	−	−	−			
Normal tissues	Liver	−	−	−	−			
	Muscle	−	−	−	−			
	Skin	−	−	−	−			
	Lung	−	−	−	−			
	Brain	−	−	−	−			
	Kidney	−	−	−	−			
Melanoma cell lines of HLA-A1 patients	LB34-MEL	+	++	++++	++++	+	+−	
	MI665/2-MEL	−	−	−	−	−	−	+
	MI10221-MEL	+	−	++	+++	−	−	+
	MI13443-MEL	+	+++	++++	++++	+	+	
	SK33-MEL	+	−	++++	++++	−	−	−
	SK23-MEL	+	−	++++	++++	−	−	+

* Data obtained in the conditions of figure 5.
† Data obtained as described in figure 6.
‡ TNF release by CTL 82/30 after stimulation with the tumor cells as described in (11).
§ Lysis of 51 Cr labelled target by CTL 82/30 in the conditions of figure 1.
** Cells transfected with the 2.4 kb fragment of gene MAGE-1 were tested for their ability fo stimulate TNF release by CTL 82/30

REPLACEMENT SHEET

FIG. 11B

		EXPRSSION OF MAGE GENE FAMILY				RECOGNITION BY ANI-E CTL		
		Northern blot probed with cross-reactive MAGE-1 probe*	cDNA-PCR product probed with oligonucleotide specific for:			tested by:		Expression of antigen MZ2-E after transfection**
			MAGE-1	MAGE-2	MAGE-3†	TNF release‡	Lysis§	
Melanoma cell lines of other patients	LB17-MEL	+	+	++++	++++	−	−	−
	LB33-MEL	+	−	+++	+++	−	−	−
	LB4-MEL	−	−	−	−	−	−	
	LB41-MEL	−	−	−	−	−	−	
	MI4024-MEL	+	+++	++++	++++	−	−	
	SK29-MEL	−	−	−	−	−	−	
	MZ3-MEL	+	+	++++	++++	−	−	
	MZ5-MEL	+	−	++++	++++	−	−	
Melanoma tumor sample	BB5-MEL	+	+++	++	+++			
Other tumor cell lines	small cell lung cancer H209	+	−	++++	++++			
	small cell lung cancer H345	+	−	++++	++++			
	small cell lung cancer H510	+	−	++++	++++			
	small cell lung cancer LB11	+	+	++++	++++			
	bronchial squamous cell carcinoma LB37	+	−	−	+++			
	thyroid medullary carcinoma TT	+	++++	+++	++++			
	colon carcinoma LB31	+	−	+++	++++			
	colon carcinoma LS411	−	−	−	−	−		
Other tumor samples	chronic myeloid leukemia LLC5	−	−	−	−			
	acute myeloid leukemia TA	−	−	−	−			

* Data obtained in the conditions of figure 5.
† Data obtained as described in figure 6.
‡ TNF release by CTL 82/30 after stimulation with the tumor cells as described in (11).
§ Lysis of 51 Cr labelled target by CTL 82/30 in the conditions of figure 1.
** Cells transfected with the 2.4 kb fragment of gene MAGE-1 were tested for their ability fo stimulate TNF release by CTL 82/30

REPLACEMENT SHEET

FIG. 12

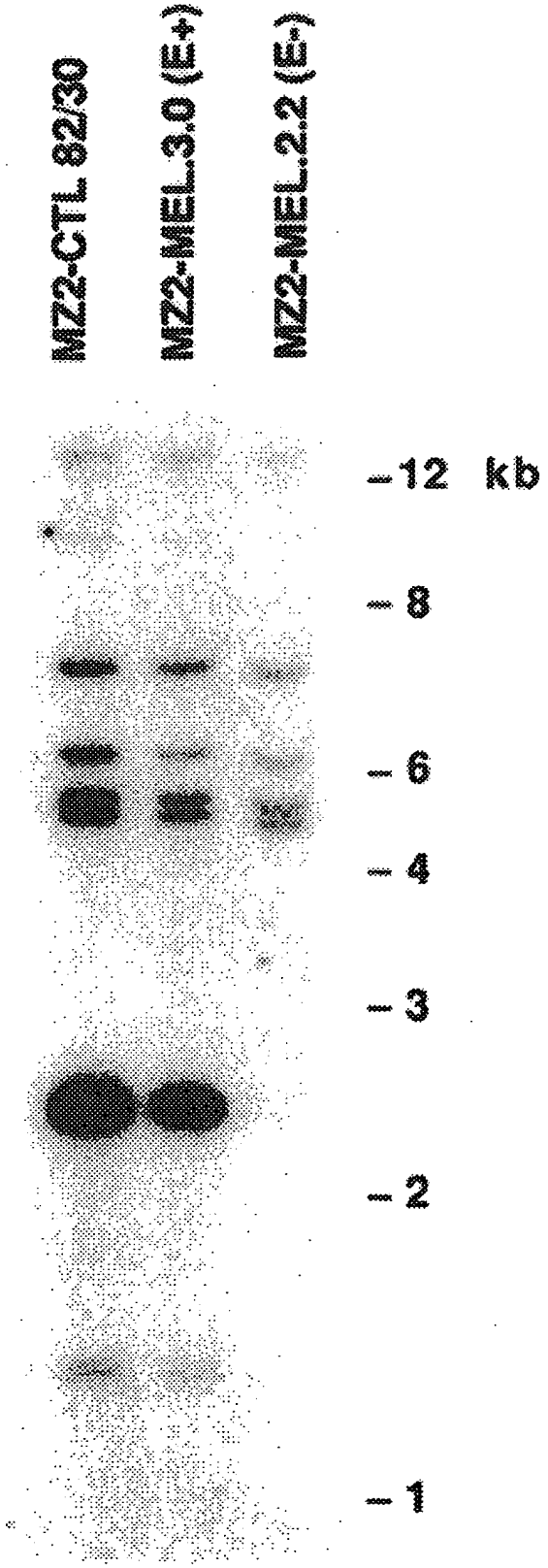
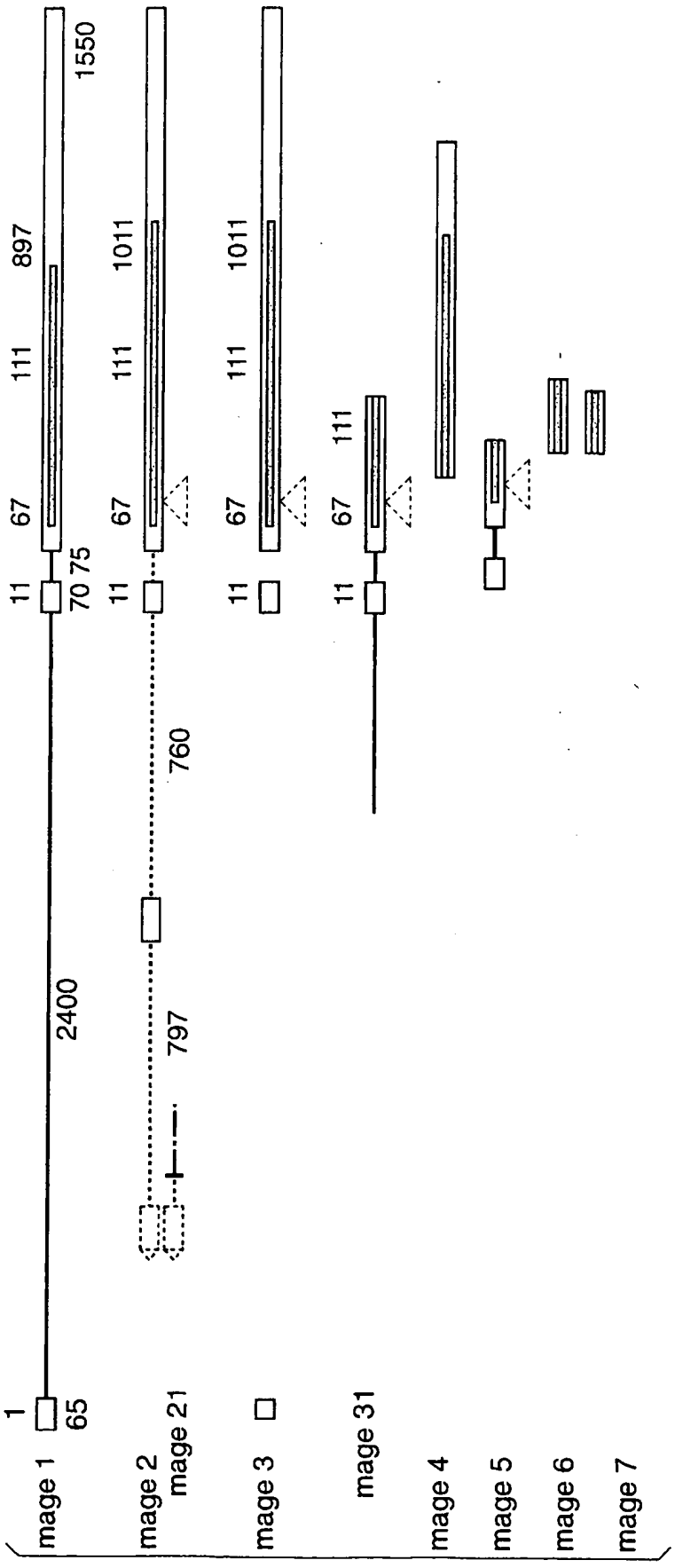


FIG. 13


mage 1
mage 2
mage 21
mage 3
mage 31
mage 4
mage 5
mage 6
mage 7
1
65
2400
11
67
70 75
111
897
1550
11
67
760
797
111
1011
11
67
111
1011
11
67
111